

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/597,034
Source: STFC/DO
Date Processed by STIC: 7/12/06

ENTERED



IFWO

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/597,034

DATE: 07/12/2006
TIME: 09:33:14

Input Set : A:\034205.003.ST25.txt
Output Set: N:\CRF4\07122006\J597034.raw

3 <110> APPLICANT: Ottawa Health Research Institute
5 <120> TITLE OF INVENTION: Diabetogenic Epitopes
7 <130> FILE REFERENCE: 034205.003
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/597,034
C--> 9 <141> CURRENT FILING DATE: 2006-07-07
9 <150> PRIOR APPLICATION NUMBER: PCT/CA05/00025
10 <151> PRIOR FILING DATE: 2005-01-10
12 <150> PRIOR APPLICATION NUMBER: US 60/535,278
13 <151> PRIOR FILING DATE: 2004-01-09
15 <160> NUMBER OF SEQ ID NOS: 52
17 <170> SOFTWARE: PatentIn version 3.3
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 10
21 <212> TYPE: PRT
22 <213> ORGANISM: Artificial
24 <220> FEATURE:
25 <223> OTHER INFORMATION: Diabetogenic epitope from gliadin protein isoforms or Gli1
based
26 on wheat protein
28 <400> SEQUENCE: 1
30 Glu Glu Gln Leu Arg Glu Leu Arg Arg Gln
31 1 5 10
34 <210> SEQ ID NO: 2
35 <211> LENGTH: 9
36 <212> TYPE: PRT
37 <213> ORGANISM: Unknown
39 <220> FEATURE:
40 <223> OTHER INFORMATION: Tryptic peptide of wheat storage globulin
42 <400> SEQUENCE: 2
44 Val Ala Ile Met Glu Val Asn Pro Arg
45 1 5
48 <210> SEQ ID NO: 3
49 <211> LENGTH: 2018
50 <212> TYPE: DNA
51 <213> ORGANISM: Unknown
53 <220> FEATURE:
54 <223> OTHER INFORMATION: Wheat gene
56 <400> SEQUENCE: 3
57 atggcgacca gaggcagagc aaccatccct ctcctttcc tcctggcac aagcttctc 60
59 ttcggccggg ctgttccgc ctcccacgac gaggaggagg acaggcgccg tggcgctcg 120
61 cttcagcggt gcgtgcagcg gtgccagcg gaccggccgc ggtactctca tgcccggtgc 180
63 gtgcaggagt gccgggacga ccagcagcg cacgaaaggc acgagcagga ggagcagggc 240
65 cgccggcatg gccggcacgg cgagggggag cgtgaggagg acgagggccg tggccgtggg 300
67 cggcgccggcc agggagagcg tgaggaggag cagggccgtg gacgtggcg gcgccggcgag 360

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/597,034

DATE: 07/12/2006
TIME: 09:33:14

Input Set : A:\034205.003.ST25.txt
Output Set: N:\CRF4\07122006\J597034.raw

69	ggagagcgtg	atgaggagca	cggggatggc	cggcgccgt	acgtgttcgg	ccccgcgcagc	420
71	ttccgcccga	tcatccggag	cgaccacggg	ttcgtcaagg	cccttcgcgg	gttcgacgaa	480
73	gtgtccaggc	tcctccgggg	catcaggaac	taccgtgtcg	ccatcatgga	ggtaaccccg	540
75	cgcgcgttcg	tcgtgcggg	actcacggac	gcagacggcg	tccgtactgt	cgctcaaggc	600
77	gaggggggtgc	tgacggtgat	cgagaacggc	gagaaggcggt	cctacaccgt	caggcaaggc	660
79	gatgtgatcg	tggcgcggc	ggggtccatc	atgcacctgg	ccaacaccga	cggccggagg	720
81	aagctggta	tcgccaagat	tctccacacc	atctccgtcc	ccggcaaggtt	ccagttttc	780
83	tcggccaagc	ctctccgtgc	tagtttgagc	aaacgcgtgc	tcacagcggc	gttaaagacc	840
85	tcggatgagc	ggctgggtag	tctcttgggc	agccgccaag	gcaaggagga	ggaggagaag	900
87	tccatctcca	tcgtccgcgc	gtcagaggag	cagctccgcg	agctgcgtcg	ccaggcgtcc	960
89	gaggggtgacc	aggccacca	ctggcctctc	ccccgttcc	gccccggactc	gccccggacacc	1020
91	ttcaacctcc	tggagcagcg	cccccaagatc	gccaaccgccc	atggccgcct	ctacgaggcc	1080
93	gacgcccgt	gttccacgc	cctcgccca	cacgacgtcc	gcgtcgccgt	ggccaaacatc	1140
95	acgcccgggtt	ctatgaccgc	gccctacctg	aacacccagt	cggtcaagct	cgccgtcg	1200
97	ctggaaggcg	aggcgaggt	ggagatcgtc	tggccgcacc	tggccgcga	cagcgagcgc	1260
99	cgcgagcaag	agcacggcaa	gggcaggtgg	aggagcgagg	aagaggagga	cgaccggcgg	1320
101	cagcaacgcc	gacgcgggtc	cggtcccgag	tcggaggagg	agcaggacca	gcagaggtac	1380
103	gagacgggtcc	gcgcgcgggt	gtcgcgcggc	tcggcggtcg	tgggtcccc	cgcccacccg	1440
105	gtgggtggaga	tcgcctcg	ccgcggcagc	agcaacctcc	agggtgggtg	cttcgagatc	1500
107	aacgcccaga	ggaacgagcg	gtgtgtggc	gccgggagga	acaacgtat	cgccaagctg	1560
109	gacgaccccg	cccaggagct	cgccctcg	aggcccgcga	gggaggtgca	ggaggtgttc	1620
111	cgcgccaagg	atcagcagga	cgaggcgttc	gtcgcggac	ccgagcagca	gcaggagcat	1680
113	gagcgcgggg	accgcgcgc	tggtaccgc	gggcgcggcg	acgaagccgt	ggagggcg	1740
115	ctgaggatgg	caaccgcgc	gctctgaggc	ggcaaggccg	ctgtttaa	gtaatgtgt	1800
117	gagctggagc	ccgtgccatt	ttagagctga	acttgtatgt	gtgtgtaa	ttgtcagttac	1860
119	gcgggagtag	cataaataag	tcgtggc	ggctcagttac	gatgtatgaa	gttgcgtacc	1920
121	tacttctac	caaggcatgc	atgccaaca	taaataaaca	caagggcg	gtgccttt	1980
123	ttcagtaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2018

126 <210> SEQ ID NO: 4

127 <211> LENGTH: 588

128 <212> TYPE: PRT

129 <213> ORGANISM: Unknown

131 <220> FEATURE:

132 <223> OTHER INFORMATION: WP5212 wheat protein sequence

134 <400> SEQUENCE: 4

136	Met	Ala	Thr	Arg	Gly	Arg	Ala	Thr	Ile	Pro	Leu	Leu	Phe	Leu	Leu	Gly	
137	1				5				10				15				
140	Thr	Ser	Leu	Leu	Phe	Ala	Ala	Ala	Ala	Val	Ser	Ala	Ser	His	Asp	Glu	Glu
141					20				25				30				
144	Glu	Asp	Arg	Arg	Gly	Gly	Arg	Ser	Leu	Gln	Arg	Cys	Val	Gln	Arg	Cys	
145					35				40			45					
148	Gln	Gln	Asp	Arg	Pro	Arg	Tyr	Ser	His	Ala	Arg	Cys	Val	Gln	Glu	Cys	
149					50				55			60					
152	Arg	Asp	Asp	Gln	Gln	Gln	His	Gly	Arg	His	Glu	Gln	Glu	Gln	Gly		
153					65				70			75			80		
156	Arg	Gly	His	Gly	Arg	His	Gly	Glu	Gly	Glu	Arg	Glu	Glu	Gln	Gly		
157								85			90			95			
160	Arg	Gly	Arg	Gly	Arg	Arg	Gly	Gln	Gly	Glu	Arg	Glu	Glu	Gln	Gly		
161								100			105			110			

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/597,034

DATE: 07/12/2006
TIME: 09:33:14

Input Set : A:\034205.003.ST25.txt
Output Set: N:\CRF4\07122006\J597034.raw

164 Arg Gly Arg Gly Arg Arg Gly Glu Gly Glu Arg Asp Glu Glu His Gly
165 115 120 125
168 Asp Gly Arg Arg Pro Tyr Val Phe Gly Pro Arg Ser Phe Arg Arg Ile
169 130 135 140
172 Ile Arg Ser Asp His Gly Phe Val Lys Ala Leu Arg Pro Phe Asp Glu
173 145 150 155 160
176 Val Ser Arg Leu Leu Arg Gly Ile Arg Asn Tyr Arg Val Ala Ile Met
177 165 170 175
180 Glu Val Asn Pro Arg Ala Phe Val Val Pro Gly Leu Thr Asp Ala Asp
181 180 185 190
184 Gly Val Gly Tyr Val Ala Gln Gly Glu Gly Val Leu Thr Val Ile Glu
185 195 200 205
188 Asn Gly Glu Lys Arg Ser Tyr Thr Val Arg Gln Gly Asp Val Ile Val
189 210 215 220
192 Ala Pro Ala Gly Ser Ile Met His Leu Ala Asn Thr Asp Gly Arg Arg
193 225 230 235 240
196 Lys Leu Val Ile Ala Lys Ile Leu His Thr Ile Ser Val Pro Gly Lys
197 245 250 255
200 Phe Gln Tyr Phe Ser Ala Lys Pro Leu Leu Ala Ser Leu Ser Lys Arg
201 260 265 270
204 Val Leu Thr Ala Ala Leu Lys Thr Ser Asp Glu Arg Leu Gly Ser Leu
205 275 280 285
208 Leu Gly Ser Arg Gln Gly Lys Glu Glu Glu Glu Lys Ser Ile Ser Ile
209 290 295 300
212 Val Arg Ala Ser Glu Glu Gln Leu Arg Glu Leu Arg Arg Gln Ala Ser
213 305 310 315 320
216 Glu Gly Asp Gln Gly His His Trp Pro Leu Pro Pro Phe Arg Gly Asp
217 325 330 335
220 Ser Arg Asp Thr Phe Asn Leu Leu Glu Gln Arg Pro Lys Ile Ala Asn
221 340 345 350
224 Arg His Gly Arg Leu Tyr Glu Ala Asp Ala Arg Ser Phe His Ala Leu
225 355 360 365
228 Ala Gln His Asp Val Arg Val Ala Val Ala Asn Ile Thr Pro Gly Ser
229 370 375 380
232 Met Thr Ala Pro Tyr Leu Asn Thr Gln Ser Phe Lys Leu Ala Val Val
233 385 390 395 400
236 Leu Glu Gly Glu Gly Glu Val Glu Ile Val Cys Pro His Leu Gly Arg
237 405 410 415
240 Asp Ser Glu Arg Arg Glu Gln Glu His Gly Lys Gly Arg Trp Arg Ser
241 420 425 430
244 Glu Glu Glu Asp Asp Arg Arg Gln Gln Arg Arg Arg Gly Ser Gly
245 435 440 445
248 Ser Glu Ser Glu Glu Glu Gln Asp Gln Gln Arg Tyr Glu Thr Val Arg
249 450 455 460
252 Ala Arg Val Ser Arg Gly Ser Ala Phe Val Val Pro Pro Gly His Pro
253 465 470 475 480
256 Val Val Glu Ile Ala Ser Ser Arg Gly Ser Ser Asn Leu Gln Val Val
257 485 490 495
260 Cys Phe Glu Ile Asn Ala Glu Arg Asn Glu Arg Val Trp Leu Ala Gly

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/597,034

DATE: 07/12/2006
TIME: 09:33:14

Input Set : A:\034205.003.ST25.txt
Output Set: N:\CRF4\07122006\J597034.raw

261 500 505 510
 264 Arg Asn Asn Val Ile Ala Lys Leu Asp Asp Pro Ala Gln Glu Leu Ala
 265 515 520 525
 268 Phe Gly Arg Pro Ala Arg Glu Val Gln Glu Val Phe Arg Ala Lys Asp
 269 530 535 540
 272 Gln Gln Asp Glu Gly Phe Val Ala Gly Pro Glu Gln Gln Gln Glu His
 273 545 550 555 560
 276 Glu Arg Gly Asp Arg Arg Gly Asp Arg Gly Arg Gly Asp Glu Ala
 277 565 570 575
 280 Val Glu Ala Phe Leu Arg Met Ala Thr Ala Ala Leu
 281 580 585
 284 <210> SEQ ID NO: 5
 285 <211> LENGTH: 291
 286 <212> TYPE: PRT
 287 <213> ORGANISM: Unknown
 289 <220> FEATURE:
 290 <223> OTHER INFORMATION: Alpha/beta-gliadin A-II precursor of wheat protein
 292 <400> SEQUENCE: 5
 294 Met Lys Thr Phe Pro Ile Leu Ala Leu Leu Ala Ile Val Ala Thr Thr
 295 1 5 10 15
 298 Ala Thr Thr Ala Val Arg Val Pro Val Pro Gln Leu Gln Leu Gln Asn
 299 20 25 30
 302 Pro Ser Gln Gln Gln Pro Gln Glu Gln Val Pro Leu Val Gln Glu Gln
 303 35 40 45
 306 Gln Phe Gln Gly Gln Gln Gln Pro Phe Pro Pro Gln Gln Pro Tyr Pro
 307 50 55 60
 310 Gln Pro Gln Pro Phe Pro Ser Gln Gln Pro Tyr Leu Gln Leu Gln Pro
 311 65 70 75 80
 314 Phe Pro Gln Pro Gln Leu Pro Tyr Pro Gln Pro Gln Pro Phe Arg Pro
 315 85 90 95
 318 Gln Gln Pro Tyr Pro Gln Pro Gln Tyr Ser Gln Pro Gln Gln
 319 100 105 110
 322 Pro Ile Ser Gln
 323 115 120 125
 326 Gln Gln Ile Leu Gln Gln Ile Leu Gln Gln Gln Leu Ile Pro Cys Arg
 327 130 135 140
 330 Asp Val Val Leu Gln Gln His Asn Ile Ala His Gly Ser Ser Gln Val
 331 145 150 155 160
 334 Leu Gln Glu Ser Thr Tyr Gln Leu Val Gln Gln Leu Cys Cys Gln Gln
 335 165 170 175
 338 Leu Trp Gln Ile Pro Glu Gln Ser Arg Cys Gln Ala Ile His Asn Val
 339 180 185 190
 342 Val His Ala Ile Ile Leu His Gln Gln His His His Gln Gln Gln
 343 195 200 205
 346 Gln Gln Gln Gln Gln Gln Pro Leu Ser Gln Val Ser Phe Gln Gln
 347 210 215 220
 350 Pro Gln Gln Gln Tyr Pro Ser Gly Gln Gly Phe Phe Gln Pro Ser Gln
 351 225 230 235 240
 354 Gln Asn Pro Gln Ala Gln Gly Ser Phe Gln Pro Gln Gln Leu Pro Gln

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/597,034

DATE: 07/12/2006
TIME: 09:33:14

Input Set : A:\034205.003.ST25.txt
Output Set: N:\CRF4\07122006\J597034.raw

355 245 250 255
358 Phe Glu Glu Ile Arg Asn Leu Ala Leu Gln Thr Leu Pro Ala Met Cys
359 260 265 270
362 Asn Val Tyr Ile Pro Pro Tyr Cys Thr Ile Ala Pro Phe Gly Ile Phe
363 275 280 285
366 Gly Thr Asn
367 290
370 <210> SEQ ID NO: 6
371 <211> LENGTH: 307
372 <212> TYPE: PRT
373 <213> ORGANISM: Unknown
375 <220> FEATURE:
376 <223> OTHER INFORMATION: Alpha/beta-gliadin MM1 precursor of wheat protein
378 <400> SEQUENCE: 6
380 Met Lys Thr Phe Leu Ile Leu Ala Leu Ala Ile Val Ala Thr Thr
381 1 5 10 15
384 Ala Arg Ile Ala Val Arg Val Pro Val Pro Gln Leu Gln Pro Gln Asn
385 20 25 30
388 Pro Ser Gln Gln Gln Pro Gln Glu Gln Val Pro Leu Val Gln Gln Gln
389 35 40 45
392 Gln Phe Pro Gly Gln Gln Gln Pro Phe Pro Pro Gln Gln Pro Tyr Pro
393 50 55 60
396 Gln Pro Gln Pro Phe Pro Ser Gln Gln Pro Tyr Leu Gln Leu Gln Pro
397 65 70 75 80
400 Phe Pro Gln Pro Gln Leu Pro Tyr Pro Gln Pro Gln Leu Pro Tyr Pro
401 85 90 95
404 Gln Pro Gln Leu Pro Tyr Pro Gln Pro Gln Pro Phe Arg Pro Gln Gln
405 100 105 110
408 Pro Tyr Pro Gln Ser Gln Pro Gln Tyr Ser Gln Pro Gln Gln Pro Ile
409 115 120 125
412 Ser Gln Lys Gln Gln
413 130 135 140
416 Gln Gln Gln Gln Gln Ile Leu Gln Gln Ile Leu Gln Gln Gln Leu
417 145 150 155 160
420 Ile Pro Cys Arg Asp Val Val Leu Gln Gln His Ser Ile Ala Tyr Gly
421 165 170 175
424 Ser Ser Gln Val Leu Gln Gln Ser Thr Tyr Gln Leu Val Gln Gln Leu
425 180 185 190
428 Cys Cys Gln Gln Leu Trp Gln Ile Pro Glu Gln Ser Arg Cys Gln Ala
429 195 200 205
432 Ile His Asn Val Val His Ala Ile Ile Leu His Gln Gln Gln Gln Gln
433 210 215 220
436 Gln Gln Gln Gln Gln Gln Pro Leu Ser Gln Val Ser Phe Gln Gln
437 225 230 235 240
440 Pro Gln Gln Gln Tyr Pro Ser Gly Gln Gly Ser Phe Gln Pro Ser Gln
441 245 250 255
444 Gln Asn Pro Gln Ala Gln Gly Ser Val Gln Pro Gln Gln Leu Pro Gln
445 260 265 270
448 Phe Glu Glu Ile Arg Asn Leu Ala Leu Glu Thr Leu Pro Ala Met Cys

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/12/2006
PATENT APPLICATION: US/10/597,034 TIME: 09:33:15

Input Set : A:\034205.003.ST25.txt
Output Set: N:\CRF4\07122006\J597034.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,10,11,12,13

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/597,034

DATE: 07/12/2006

TIME: 09:33:15

Input Set : A:\034205.003.ST25.txt

Output Set: N:\CRF4\07122006\J597034.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date